



Sheet # 2 (Arrays)

1. Write a **C++ program** that accepts an array of integers and an integer number and search if this number exists in the array, if the number exists display its indexes in the array.
2. Write a **C++ program** that accepts an array of integers, count number of zeros, positive and negative numbers in the array.

Solution of sheet 2

1.

```
#include <iostream>
using namespace std;

int main()
{
    int valueList[] = {1, 2, 5, 4, 5, 6, 7, 8, 5};
    int key = 10;
    int index[10], j = 0;
    for (int i = 0; i < 9; i++)
    {
        if (key == valueList[i])
        {
            index[j] = i;
            j++;
        }
    }
    if (j == 0)
        cout << "the element not found";
    else
    {
        for (int i = 0; i < j; i++)
            cout << index[i];
    }
}
```



```
2. Write a C program to check if a number is positive, negative or zero.

#include <stdio.h>

int main()
{
    int num;
    printf("Enter a number: ");
    scanf("%d", &num);

    if (num > 0)
        printf("The number is positive.\n");
    else if (num < 0)
        printf("The number is negative.\n");
    else
        printf("The number is zero.\n");

    return 0;
}
```